



Government of Pakistan
Ministry of Water Resources
Office of Chief Engineering Adviser/
Chairman, Federal Flood Commission

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FFC's
DAILY WEATHER & FLOOD SITUATION REPORT
TUESDAY, AUGUST 08, 2023

Tarbela and **Mangla Reservoirs** have attained live storage upto **97% & 94%** respectively of their maximum live storage capacity. The respective Dam Managements including Mangla Dam Flood Mitigation Committee (FMC) are exercising round-the-clock vigilance and ensuring utmost care in reservoirs operation as per respective SOPs and Dam Safety Guidelines.

2. As regards Indus River System, **River Indus** is flowing in **Low Flood** in **Tarbela- Chashma** reach and at **Guddu & Kotri**. **River Sutlej** is continuously experiencing **Low Flood** at **Islam** since **1st August 2023**. Rest of the major Rivers (Kabul, Jhelum, Chenab & Ravi) are flowing with Normal Flow Condition. Inflows/ Outflows of major rivers at specified locations, besides country's major reservoirs storage position may be seen at **Annexure-I**.

3. As per FFD, Lahore trough of Westerly Wave is persisting over Northern parts of Afghanistan with Seasonal Low continues to prevail over Northern Balochistan. Light moist currents from Arabian Sea are penetrating into upper parts of Pakistan upto 4000 feet.

4. **Thunderstorm Rain** of **Light to Moderate Intensity** at **isolated places** has been predicted by FFD, Lahore over **Islamabad, Punjab (Rawalpindi, Gujranwala, Sargodha, Lahore & DG Khan Divisions)** and **Khyber Pakhtunkhwa (Peshawar Division)** including upper catchments of all the major rivers of IRS during the next 24 hours. Few rainfall events have been observed in Punjab, Khyber Pakhtunkhwa, GB and AJ&K during the past 24 hours (**Annexure-II**).

5. All concerned organizations particularly **Tarbela** and **Mangla Dam** organizations are advised to remain **Alert & Vigilant**. Take prompt response on warnings issued and ensured safety of communities living in low lying areas including the public & private properties, irrigation, drainage, flood protection & river training infrastructure etc.

6. Round-the-Clock monitoring of the prevailing weather system is being done by the PMD through Flood Forecasting Division, Lahore and is keeping all concerned organizations fully abreast of the current situation.


(Ahmed Kamal)
Chief Engineering Advisor/
Chairman, Federal Flood Commission

Distribution:

1. Minister for Water Resources, Islamabad.
2. Minister for Planning, Development & Special Initiatives, Islamabad.
3. Minister for Climate Change, Islamabad.
4. Secretary to the Prime Minister, Prime Minister's Office, Islamabad
5. Secretary, Ministry of Water Resources, Islamabad.
6. Secretary, Planning, Development & Special Initiatives Division, Islamabad.
7. Secretary, Ministry of Climate Change, Islamabad.
8. Secretary, Ministry of National Food Security & Research, Islamabad.

Distribution:

9. Director General (Coordination-III), President's Secretariat (Public), Aiwan-E-Sadr, Islamabad.
10. Chairman, National Disaster Management Authority, Prime Minister's Office, Islamabad.
11. Chairman, WAPDA, WAPDA House, Lahore.
12. Chief Executive Officer, Pakistan Railways, Lahore.
13. Chairman, Indus River System Authority, Islamabad.
14. Pakistan Commissioner for Indus Waters (PCIW), Islamabad.
15. Chairman, National Highway Authority, Islamabad.
16. Chairman PCRWR, Ministry of Water Resources, Islamabad.
17. Director General, Pakistan Meteorological Department, Islamabad.
18. Member (Water), WAPDA, WAPDA House, Lahore.
19. Member (Infrastructure), Planning Commission, Islamabad.
20. Chief Secretary, Government of the Punjab, Lahore.
21. Chief Secretary, Government of Sindh, Karachi.
22. Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar.
23. Chief Secretary, Government of Balochistan, Quetta
24. Chief Secretary, Government of Gilgit-Baltistan, Gilgit.
25. Chief Secretary, Government of Azad Jammu & Kashmir, Muzaffarabad.
26. Secretary, Irrigation Department, Government of the Punjab, Lahore.
27. Secretary, Irrigation Department, Government of Sindh, Karachi
28. Secretary, Irrigation Department, Government of Khyber Pakhtunkhwa, Peshawar.
29. Secretary, Irrigation Department, Government of Balochistan, Quetta.
30. Secretary (Works), Gilgit-Baltistan-PWD, Gilgit.
31. Secretary, Irrigation & Agriculture, Government of AJ&K, Muzaffarabad.
32. Chief Engineer Merged Areas, Irrigation Department, Government of K.P, Peshawar.
33. General Manager, Tarbela Dam Project (TDP), WAPDA, Tarbela.
34. General Manager, Mangla Dam Organization (MDO), WAPDA, Mangla.
35. Director General, Provincial Disaster Management Authority, Government of the Punjab, Lahore.
36. Director General, Provincial Disaster Management Authority, Government of Sindh, Karachi.
37. Director General, Provincial Disaster Management Authority, Government of K.P, Peshawar.
38. Director General, Provincial Disaster Management Authority, Government of Balochistan, Quetta.
39. Director General, Gilgit Baltistan, Disaster Management Authority, Gilgit.
40. Director General, State Disaster Management Authority, Govt. of AJ&K, Muzaffarabad.
41. Director General, Irrigation & Small Dams Organization, Govt. of AJ&K, Muzaffarabad.
42. Chief Commissioner, ICT, Islamabad.
43. Chairman, Capital Development Authority, Islamabad.
44. Commissioner, Rawalpindi.
45. Managing Director, WASA, Rawalpindi.
46. Principal Information Officer, Press Information Department, Islamabad.
47. Director (News), Associated Press of Pakistan, Islamabad.
48. Director (News), Pakistan Television, Islamabad.
49. Flood Cell, General Staff Branch, Engineers Directorate, GHQ, Rawalpindi.
50. Chief Executive Officer, National Disaster Risk Management Fund (NDRMF), Islamabad.

U.O. No. FC-I (31)/2023, dated 08-08-2023

Rivers and Reservoir Positions August 08, 2023 at 0600 Hours

A. River Flow Situation:

(Discharge in Cusecs)

| Structures | Designed Capacity | Historic Peak Floods experienced to-date | | Last Year Flow | | Today Actual Flow with Flood Classification | | | Comparative Danger (VHF) Classification |
|---------------------|-------------------|--|------------|----------------|---------|---|---------|-----------------------|---|
| | | Discharge | Date | Inflow | Outflow | Inflow | Outflow | Flood Classification* | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| River Indus | | | | | | | | | |
| • Tarbela Reservoir | 1,500,000 | 604,000 | 30-7-2010 | 174,000 | 158,000 | 254,000 | 263,000 | Low Flood (F) | 650,000 |
| • Kalabagh | 950,000 | 950,000 | 14-7-1942 | 150,000 | 144,000 | 277,000 | 269,000 | Low Flood (R) | 650,000 |
| • Chashma Reservoir | 950,000 | 1,036,673 | 01-8-2010 | 179,000 | 163,000 | 263,000 | 248,000 | Normal | 650,000 |
| • Taunsa | 1,000,000 | 959,991 | 02-8-2010 | 133,000 | 126,000 | 245,000 | 229,000 | Normal | 650,000 |
| • Guddu | 1,200,000 | 1,199,672 | 15-8-1976 | 286,000 | 261,000 | 266,000 | 233,000 | Low Flood (R) | 700,000 |
| • Sukkur | 900,000 | 1,161,000 | 16-8-1976 | 383,000 | 341,000 | 185,000 | 130,000 | Normal | 700,000 |
| • Kotri | 875,000 | 981,000 | 14-8-1956 | 200,000 | 188,000 | 250,000 | 212,000 | Low Flood (R) | 650,000 |
| River Kabul | | | | | | | | | |
| • Warsak | 540,000 | | | | 24,000 | | 33,000 | Normal | 200,000 |
| • Nowshera | | | | | 39,000 | | 54,000 | Normal | 200,000 |
| River Swat | | | | | | | | | |
| • Chakdara Bridge | | | | | 14,000 | | 13,000 | Normal | 150,000 |
| • Munda(H. Works) | | | | | 8,000 | | 15,000 | Normal | 150,000 |
| • Charsadda Road | 150,000 | | | | 8,000 | | 14,000 | Normal | 100,000 |
| River Jhelum | | | | | | | | | |
| • Mangla Reservoir | 1,060,000 | 1,090,000 | 10-9-1992 | 55,000 | 10,000 | 43,000 | 10,000 | Normal | 225,000 |
| • Rasul | 850,000 | 952,170 | 10-9-1992 | 7,000 | NIL | 3,000 | NIL | Normal | 225,000 |
| River Chenab | | | | | | | | | |
| • Marala | 1,100,000 | 1,100,000 | 26-8-1957 | 64,000 | 38,000 | 78,000 | 49,000 | Normal | 400,000 |
| • Khanki | 1,100,000 | 1,086,460 | 27-8-1959 | 41,000 | 35,000 | 64,000 | 56,000 | Normal | 400,000 |
| • Qadirabad | 900,000 | 948,530 | 11-9-1992 | 39,000 | 20,000 | 57,000 | 47,000 | Normal | 400,000 |
| • Trimmu | 875,000 | 943,225 | 08-7-1959 | 50,000 | 43,000 | 64,000 | 55,000 | Normal | 450,000 |
| • Panjnad | 865,000 | 802,516 | 17-8-1973 | 77,000 | 66,000 | 76,000 | 60,000 | Normal | 450,000 |
| River Ravi | | | | | | | | | |
| • Jassar | 275,000 | 680,000 | 05-10-1955 | | 10,000 | | 23,000 | Normal | 150,000 |
| • Shahdara | 250,000 | 680,000 | 22-9-1988 | | 19,000 | | 26,000 | Normal | 135,000 |
| • Balloki | 380,000 | 336,200 | 28-9-1988 | 48,000 | 30,000 | 45,000 | 27,000 | Normal | 135,000 |
| • Sidhmai | 150,000 | 330,210 | 02-10-1988 | 23,000 | 13,000 | 37,000 | 20,000 | Normal | 90,000 |
| River Sutlej | | | | | | | | | |
| • G.S. Wala | | | | | | Gauge 18.70 | 51,000 | Normal | |
| • Suleimanki | 325,000 | 598,872 | 08-10-1955 | 12,000 | 6,000 | 57,000 | 45,000 | Normal | 175,000 |
| • Islam | 332,000 | 492,581 | 11-10-1955 | 12,000 | 11,000 | 63,000 | 61,000 | Low Flood (S) | 175,000 |

B. Reservoir Storage Position:

| Reservoir | Maximum Conservation Level (Ft-AMSL) | Minimum Operating Level (Ft-AMSL) | Water Level (Feet-AMSL) | | | Live Storage (MAF) | | | Present Storage (%age of total storage) |
|---------------------------|--------------------------------------|-----------------------------------|--------------------------|---------|---------|--------------------|--------------|---------------|---|
| | | | 2021 | 2022 | 2023 | Maximum | Last Year | Today | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Tarbela | 1550.00 | 1402.00 | 1538.00 | 1541.00 | 1547.00 | 5.809 | 5.312 | 5.636 | 97.02 % |
| Chashma | 649.00 | 638.15 | 645.50 | 648.10 | 643.00 | 0.278 | 0.232 | 0.078 | 28.06 % |
| Mangla | 1242.00 | 1050.00 | 1199.60 | 1163.60 | 1236.25 | 7.356 | 2.364 | 6.902 | 93.83 % |
| Total Live Storage | | | | | | 13.443 | 7.908 | 12.616 | 93.85 % |

C. Skardu Temperature:

| Skardu Temperature | Last year 2022 | Today 2023 | Difference (+ /-) |
|--------------------|----------------|------------|---------------------|
| Maximum | 34.7 °C | 27.6 °C | - 7.1 °C |
| Minimum | 19.0 °C | 15.4 °C | - 3.6 °C |

NOTES: "Mild" Categories

- Low Flood: River flowing within deep (winter) channel(s) but about to spill threatening only river islands/belas
 Medium Flood: River partly inundating river islands/belas
 High Flood: River almost fully submerging islands/belas and flowing upto high banks/bunds but without encroachment on the freeboard

"Danger" Categories

- Very High Flood (VHF): River flowing between high banks/bunds with encroachment on the freeboard
 Exceptionally High Flood (EHF): Imminent danger of overtopping/breaching, or the high bank areas have become inundated

* Flood Classification: (applied on downstream discharge/Outflow)

* (R) Signifies "Rising" Flood, (F) Signifies "Falling" Flood, (S) Signifies "Stable" Flow Condition & NR stands for "Not Received"

* Flood Classification for today is w.r.t. yesterday's Flood Classification at 0600 hours.

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Significant Rainfall Events during the Past 24 Hours

| Sr. No. | City/Observatory | Rainfall (mm) |
|----------|---------------------------|---------------|
| A | Punjab | |
| 1. | Mianwali | 14 |
| 2. | Sargodha | 06 |
| B | Khyber Pakhtunkhwa | |
| 3. | Buner | 17 |
| 4. | Pattan | 10 |
| 5. | Phulra & Oghi | 08 each |
| 6. | Mamad Gut & Balakot | 06 each |
| 7. | Mirkhani | 05 |
| C | Gilgit-Baltistan | |
| 8. | Chilas | 10 |
| 9. | Bagrote | 09 |
| 10. | Gilgit | 07 |
| 11. | Bunji | 05 |
| D | AJ&K | |
| 12. | Domel | 48 |
| 13. | Muzaffarabad | 21 |
| 14. | Garhi Dopatta & Dhulli | 05 each |

Source: FFD, Lahore (042-99200139)